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(54) Title: METHODS FOR SITE-DIRECTED MUTAGENESIS AND TARGETED RANDOMIZATION

(57) Abstract: The present invention provides methods and compositions for the construction and direct transformation of site-saturation libraries into *Bacillus*. This method avoids the need for the use of intermediate hosts, such as *E. coli* for the development of *Bacillus* strains suitable for the production of proteins.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/01334

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12N 15/00, 15/09, 15/63, 15/70, 15/74, 15/87, 15/85  
 US CL : 435/455, 464, 320.1

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
 EAST, STN, STC: search: gene amplification, transformation, fragments, PCR, ligate, Apal digestion site, Sequence.:

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,418,873 A (ADAMS et al.) 02 May 1995(02.05.1995), see entire document.	1-3, 6
A,P	US 2003/0162209 A1 (MARTIN) 28 August 2003(28.08.2003), see entire document.	1-3, 6
A	US 5,776,746 A (DENNEY, JR.) 07 July 1998(07.07.1998), see entire document.	1-3, 6

Further documents are listed in the continuation of Box C.  See patent family annex.

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"O" document referring to an oral disclosure, use, exhibition or other means

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"P" document published prior to the international filing date but later than the priority date claimed

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